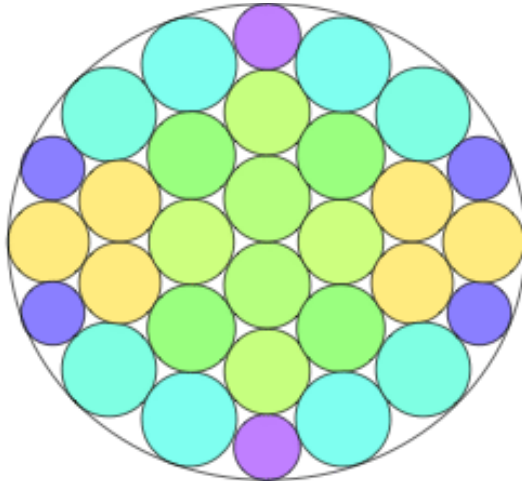


**Problem E: Circles in Ellipse**  
**Time Limit: 3 seconds**



**Description**

The following pictures show the best way to have 30 circles with the largest possible sum of radii packed inside an ellipse with perimeter  $2\pi * A$ . Given **A**, you will compute  $\Sigma R$ , the sum of all radii over the 30 circles. Each color represent a circle of different size.

**Input**

A number of of inputs, each line with an integer  $0 \leq A \leq 1000000000$ .

**Output**

Output the answer rounded to an integer.

**Sample Input**

1  
10  
100

**Sample Output**

5  
50  
503